
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: markspencer

Timestamp: Mon May 07 13:37:20 EDT 2007

Reviewer Comments:

ErrorCode ErrorDecription

W213 Artificial or Unknown found in <213> in SEQ ID (6)

E224 <220>,<223> section required as <213> has Artificial

sequence or Unknown in SEQID (6)

Feature <220> and <223> required explaining the source of the genetic material when "Artificial" or "Unknown" are used as the organism.

W213 Artificial or Unknown found in <213> in SEQ ID (7)

E224 <220>,<223> section required as <213> has Artificial

sequence or Unknown in SEQID (7)

Same as above.

W213 Artificial or Unknown found in <213> in SEQ ID (12)

E224 <220>,<223> section required as <213> has Artificial

sequence or Unknown in SEQID (12)

Same as above

W213 Artificial or Unknown found in <213> in SEQ ID (13)

E224 <220>,<223> section required as <213> has Artificial

sequence or Unknown in SEQID (13)

Same as above

W213 Artificial or Unknown found in <213> in SEQ ID (19)

E224 <220>,<223> section required as <213> has Artificial

sequence or Unknown in SEQID (19)

Same as above

W213 Artificial or Unknown found in <213> in SEQ ID (20)

E224 <220>,<223> section required as <213> has Artificial

sequence or Unknown in SEQID (20)

Same as above

W213 Artificial or Unknown found in <213> in SEQ ID (25)

E224 <220>,<223> section required as <213> has Artificial

sequence or Unknown in SEQID (25)

Same as above													
W213	Artificial or Unknown found in <213> in SEQ ID (26)												
E224	<220>,<223> section required as <213> has Artificial												
sequence or Unknown in SEQID (26)													
Same as above													
E323	Invalid/missing amino acid numbering SEQID (11) POS												
(155)													
E323	Invalid/missing amino acid numbering SEQID (11) POS												
(160)													
E323	Invalid/missing amino acid numbering SEQID (11) POS												
(165)													
E323	Invalid/missing amino acid numbering SEQID (11) POS												
(170)													
E323	Invalid/missing amino acid numbering SEQID (11) POS												
(175)													
E323	Invalid/missing amino acid numbering SEQID (11) POS												
(180)													
E323	Invalid/missing amino acid numbering SEQID (11) POS												
(185)													
E323	Invalid/missing amino acid numbering SEQID (11) POS												
(190)													
E323	Invalid/missing amino acid numbering SEQID (11) POS												
(195)													
E323	Invalid/missing amino acid numbering SEQID (11) POS												
(200)													
Nubering for SE	Q ID # 11 is missing number 155 and number 205 is used												
twice.													

Validated By CRFValidator v 1.0.2

Application No: 10583785 Version No: 1.0

Input Set:

Output Set:

Started: 2007-05-07 12:52:44.341
Finished: 2007-05-07 12:52:49.535

Elapsed: 0 hr(s) 0 min(s) 5 sec(s) 194 ms

Total Warnings: 8

Total Errors: 18

No. of SeqIDs Defined: 26

Actual SeqID Count: 26

ErrCode Error Description

W	213	Artificial or Unknown found in <213> in SEQ ID (6)
E	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (6)
W	213	Artificial or Unknown found in <213> in SEQ ID (7)
E	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (7)
E	323	Invalid/missing amino acid numbering SEQID (11) POS (155)
E	323	Invalid/missing amino acid numbering SEQID (11) POS (160)
E	323	Invalid/missing amino acid numbering SEQID (11) POS (165)
E	323	Invalid/missing amino acid numbering SEQID (11) POS (170)
E	323	Invalid/missing amino acid numbering SEQID (11) POS (175)
E	323	Invalid/missing amino acid numbering SEQID (11) POS (180)
E	323	Invalid/missing amino acid numbering SEQID (11) POS (185)
E	323	Invalid/missing amino acid numbering SEQID (11) POS (190)
E	323	Invalid/missing amino acid numbering SEQID (11) POS (195)
E	323	Invalid/missing amino acid numbering SEQID (11) POS (200)
W	213	Artificial or Unknown found in <213> in SEQ ID (12)
E	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (12)
W	213	Artificial or Unknown found in <213> in SEQ ID (13)
E	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (13)
W	213	Artificial or Unknown found in <213> in SEQ ID (19)

Input Set:

Output Set:

Elapsed: 0 hr(s) 0 min(s) 5 sec(s) 194 ms

Total Warnings: 8

Total Errors: 18

No. of SeqIDs Defined: 26

Actual SeqID Count: 26

Er	rCode	Error Description
E	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (19)
W	213	Artificial or Unknown found in <213> in SEQ ID (20)
E	224	$<\!220\!>$, $<\!223\!>$ section required as $<\!213\!>$ has Artificial sequence or Unknown in SEQID (20)
W	213	Artificial or Unknown found in <213> in SEQ ID (25)
E	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (25)
W	213	Artificial or Unknown found in <213> in SEQ ID (26)
E	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (26)

```
<110> Prof. Dr. Werner Seeger
<120> Novel chimeric plasminogen activators and their pharmaceutical use
<130>
       607927-000001
<140> 10583785
<141> 2007-05-07
<150> US/10/583,785
<151> 2006-06-19
<160> 26
<210> 1
<211> 1143
<212> DNA
<213> Homo sapiens
<220>
<221> CDS
<222> (1) ... (1143)
<223> Coding sequence of the surfactant protein B precursor
<400> 1
atg gct gag tca cac ctg ctg cag tgg ctg ctg ctg ctg ccc acg 48
Met Ala Glu Ser His Leu Leu Gln Trp Leu Leu Leu Leu Pro Thr
 1
                 5
                                                        15
                                    10
ctc tgt ggc cca ggc act gct gcc tgg acc acc tca tcc ttg gcc tgt 96
Leu Cys Gly Pro Gly Thr Ala Ala Trp Thr Thr Ser Ser Leu Ala Cys
   20 25
gcc cag ggc cct gag ttc tgg tgc caa agc ctg gag caa gca ttg cag 144
Ala Gln Gly Pro Glu Phe Trp Cys Gln Ser Leu Glu Gln Ala Leu Gln
         35
                            40
                                                45
tgc aga gcc cta ggg cat tgc cta cag gaa gtc tgg gga cat gtg gga 192
Cys Arg Ala Leu Gly His Cys Leu Gln Glu Val Trp Gly His Val Gly
     50
                         55
                                            60
gcc gat gac cta tgc caa gag tgt gag gac atc gtc cac atc ctt aac
Ala Asp Asp Leu Cys Gln Glu Cys Glu Asp Ile Val His Ile Leu Asn
 65
                     70
                                        75
                                                            80
aag atg gcc aag gag gcc att ttc cag gac acg atg agg aag ttc ctg
Lys Met Ala Lys Glu Ala Ile Phe Gln Asp Thr Met Arg Lys Phe Leu
                85
                                    90
                                                        95
gag cag gag tgc aac gtc ctc ccc ttg aag ctg ctc atg ccc cag tgc 336
Glu Gln Glu Cys Asn Val Leu Pro Leu Lys Leu Leu Met Pro Gln Cys
            100
                               105
                                                   110
aac caa gtg ctt gac gac tac ttc ccc ctg gtc atc gac tac ttc cag
Asn Gln Val Leu Asp Asp Tyr Phe Pro Leu Val Ile Asp Tyr Phe Gln
```

120

125

						ggc Gly 135										432
						gag Glu										480
						cct Pro										528
						Gly										576
	_	_				cag Gln										624
						atc Ile 215									aag Lys	672
						gtg Val									ctg Leu 240	720
						cag Gln										768
						ggc Gly										816
						atg Met										864
						cga Arg 295									tcc Ser	912
						aac Asn										960
						ggc Gly										1008
caa Gln	ttt	gtg	gag	cag	cac	acg	ccc	cag	ctg	ctg	acc	ctg	gtg	ccc	agg	1056

```
Gly Trp Asp Ala His Thr Thr Cys Gln Ala Leu Gly Val Cys Gly Thr
        355
                            360
                                                365
atg tcc agc cct ctc cag tgt atc cac agc ccc gac ctt
                                                      1143
Met Ser Ser Pro Leu Gln Cys Ile His Ser Pro Asp Leu
                        375
    370
                                            380
<210> 2
<211> 837
<212> DNA
<213> Homo sapiens
<220>
<221> CDS
<222> (1) ... (837)
<223> Coding sequence of SP-B precursor lacking the C-terminal propeptide
<400> 2
atg gct gag tca cac ctg ctg cag tgg ctg ctg ctg ctg ccc acg 48
Met Ala Glu Ser His Leu Leu Gln Trp Leu Leu Leu Leu Pro Thr
 1
                  5
                                                         15
                                     10
ctc tgt ggc cca ggc act gct gcc tgg acc acc tca tcc ttg gcc tgt
Leu Cys Gly Pro Gly Thr Ala Ala Trp Thr Thr Ser Ser Leu Ala Cys
             20
                                 25
                                                      30
gcc cag ggc cct gag ttc tgg tgc caa agc ctg gag caa gca ttg cag 144
Ala Gln Gly Pro Glu Phe Trp Cys Gln Ser Leu Glu Gln Ala Leu Gln
         35
                             40
                                                  45
tgc aga gcc cta ggg cat tgc cta cag gaa gtc tgg gga cat gtg gga 192
Cys Arg Ala Leu Gly His Cys Leu Gln Glu Val Trp Gly His Val Gly
     50
                         55
                                             60
gcc gat gac cta tgc caa gag tgt gag gac atc gtc cac atc ctt aac
Ala Asp Asp Leu Cys Glu Cys Glu Asp Ile Val His Ile Leu Asn
 65
                     70
                                         75
                                                              80
aag atg gcc aag gag gcc att ttc cag gac acg atg agg aag ttc ctg
Lys Met Ala Lys Glu Ala Ile Phe Gln Asp Thr Met Arg Lys Phe Leu
                 85
                                     90
                                                          95
gag cag gag tgc aac gtc ctc ccc ttg aag ctg ctc atg ccc cag tgc
Glu Gln Glu Cys Asn Val Leu Pro Leu Lys Leu Leu Met Pro Gln Cys
                                105
            100
                                                    110
aac caa gtg ctt gac gac tac ttc ccc ctg gtc atc gac tac ttc cag
Asn Gln Val Leu Asp Asp Tyr Phe Pro Leu Val Ile Asp Tyr Phe Gln
        115
                            120
                                                125
aac cag act gac tca aac ggc atc tgt atg cac ctg ggc ctg tgc aaa
Asn Gln Thr Asp Ser Asn Gly Ile Cys Met His Leu Gly Leu Cys Lys
```

135

140

ggc tgg gat gcc cac acc acc tgc cag gcc ctc ggg gtg tgt ggg acc

tcc cgg cag cca gag cca gag cag gag cca ggg atg tca gac ccc ctg Ser Arg Gln Pro Glu Pro Glu Gln Glu Pro Gly Met Ser Asp Pro Leu 145 150 155 160	480
ccc aaa cct ctg cgg gac cct ctg cca gac cct ctg ctg gac aag ctc Pro Lys Pro Leu Arg Asp Pro Leu Pro Asp Pro Leu Leu Asp Lys Leu 165 170 175	528
gtc ctc cct gtg ctg ccc ggg gcc ctc cag gcg agg cct ggg cct cac Val Leu Pro Val Leu Pro Gly Ala Leu Gln Ala Arg Pro Gly Pro His 180 185 190	576
aca cag gat ctc tcc gag cag caa ttc ccc att cct ctc ccc tat tgc Thr Gln Asp Leu Ser Glu Gln Gln Phe Pro Ile Pro Leu Pro Tyr Cys 195 200 205	624
tgg ctc tgc agg gct ctg atc aag cgg atc caa gcc atg att ccc aag Trp Leu Cys Arg Ala Leu Ile Lys Arg Ile Gln Ala Met Ile Pro Lys 210 215 220	672
ggt gcg cta gct gtg gca gtg gcc cag gtg tgc cgc gtg gta cct ctg Gly Ala Leu Ala Val Ala Val Ala Gln Val Cys Arg Val Val Pro Leu 225 230 235 240	720
gtg gcg ggc ggc atc tgc cag tgc ctg gct gag cgc tac tcc gtc atc Val Ala Gly Gly Ile Cys Gln Cys Leu Ala Glu Arg Tyr Ser Val Ile 245 250 255	768
ctg ctc gac acg ctg ctg ggc cgc atg ctg ccc cag ctg gtc tgc cgc Leu Leu Asp Thr Leu Leu Gly Arg Met Leu Pro Gln Leu Val Cys Arg	816
ctc gtc ctc cgg tgc tcc atg 837 Leu Val Leu Arg Cys Ser Met 275	
<210> 3 <211> 237 <212> DNA <213> Homo sapiens	
<220> <221> CDS <222> (1) (237) <223> Coding sequence of the mature surfactant protein B	
<400> 3	
ttc ccc att cct ctc ccc tat tgc tgg ctc tgc agg gct ctg atc aag Phe Pro Ile Pro Leu Pro Tyr Cys Trp Leu Cys Arg Ala Leu Ile Lys 1 5 10 15	48
cgg atc caa gcc atg att ccc aag ggt gcg cta gct gtg gca gtg gcc Arg Ile Gln Ala Met Ile Pro Lys Gly Ala Leu Ala Val Ala Val Ala	96

```
Gln Val Cys Arg Val Val Pro Leu Val Ala Gly Gly Ile Cys Gln Cys
         35
                             40
                                                  45
ctg gct gag cgc tac tcc gtc atc ctg ctc gac acg ctg ctg ggc cgc 192
Leu Ala Glu Arg Tyr Ser Val Ile Leu Leu Asp Thr Leu Leu Gly Arg
     50
                         55
                                              60
atg ctg ccc cag ctg gtc tgc cgc ctc gtc ctc cgg tgc tcc atg 237
Met Leu Pro Gln Leu Val Cys Arg Leu Val Leu Arg Cys Ser Met
 65
                     70
                                         75
<210> 4
<211> 1293
<212> DNA
<213> Homo sapiens
<220>
<221> CDS
<222> (1) ... (1293)
<223> Coding sequence of the single-chain urokinase-plasminogen activator
<400> 4
atg aga gcc ctg ctg gcg cgc ctg ctt ctc tgc gtc ctg gtc gtg agc
Met Arg Ala Leu Leu Ala Arg Leu Leu Leu Cys Val Leu Val Ser
 1
                  5
                                     10
                                                          15
gac tcc aaa ggc agc aat gaa ctt cat caa gtt cca tcg aac tgt gac
Asp Ser Lys Gly Ser Asn Glu Leu His Gln Val Pro Ser Asn Cys Asp
             20
                                 25
                                                      30
tgt cta aat gga gga aca tgt gtg tcc aac aag tac ttc tcc aac att
Cys Leu Asn Gly Gly Thr Cys Val Ser Asn Lys Tyr Phe Ser Asn Ile
         35
                             40
                                                  45
cac tgg tgc aac tgc cca aag aaa ttc gga ggg cag cac tgt gaa ata 192
His Trp Cys Asn Cys Pro Lys Lys Phe Gly Gly Gln His Cys Glu Ile
     50
                         55
                                              60
gat aag tca aaa acc tgc tat gag ggg aat ggt cac ttt tac cga gga 240
Asp Lys Ser Lys Thr Cys Tyr Glu Gly Asn Gly His Phe Tyr Arg Gly
 65
                     70
                                                              80
                                         75
aag gcc agc act gac acc atg ggc cgg ccc tgc ctg ccc tgg aac tct
Lys Ala Ser Thr Asp Thr Met Gly Arg Pro Cys Leu Pro Trp Asn Ser
                                                          95
                 85
                                     90
gcc act gtc ctt cag caa acg tac cat gcc cac aga tct gat gct ctt 336
Ala Thr Val Leu Gln Gln Thr Tyr His Ala His Arg Ser Asp Ala Leu
            100
                                105
                                                     110
cag ctg ggc ctg ggg aaa cat aat tac tgc agg aac cca gac aac cgg 384
Gln Leu Gly Leu Gly Lys His Asn Tyr Cys Arg Asn Pro Asp Asn Arg
```

125

115

cag gtg tgc cgc gtg gta cct ctg gtg gcg ggc ggc atc tgc cag tgc 144

			tgg Trp												caa Gln	432
			gtg Val												cct Pro 160	480
			tta Leu												cgc Arg	528
			att Ile 180												tgg Trp	576
			atc Ile												gtg Val	624
_			agc Ser			_		_				_	_			672
_			gat Asp			_	_		_			_		_		720
			ctt Leu												gtg Val	768
_			atc Ile 260			_	Ō		_	_				_		816
		_	att Ile	_		_	_		_						tgt Cys	864
	_		tcc Ser				_			_	_		_		tat Tyr	912
	_		cag Gln				_	_							aaa Lys 320	960
			acc Thr													1008
			att Ile 340													1056
tct	gaa	gtc	acc	acc	aaa	atg	ctg	tgt	gct	gct	gac	cca	cag	tgg	aaa	1104

```
Ser Glu Val Thr Thr Lys Met Leu Cys Ala Ala Asp Pro Gln Trp Lys
        355
                            360
                                                 365
aca gat tcc tgc cag gga gac tca ggg gga ccc ctc gtc tgt tcc ctc 1152
Thr Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Ser Leu
    370
                        375
                                             380
caa ggc cgc atg act ttg act gga att gtg agc tgg ggc cgt gga tgt 1200
Gln Gly Arg Met Thr Leu Thr Gly Ile Val Ser Trp Gly Arg Gly Cys
385
                    390
                                         395
                                                             400
gcc ctg aag gac aag cca ggc gtc tac acg aga gtc tca cac ttc tta 1248
Ala Leu Lys Asp Lys Pro Gly Val Tyr Thr Arg Val Ser His Phe Leu
                405
                                     410
                                                         415
ccc tgg atc cgc agt cac acc aag gaa gag aat ggc ctg gcc ctc 1293
Pro Trp Ile Arg Ser His Thr Lys Glu Gln Asn Gly Leu Ala Leu
            420
                                425
                                                     430
<210> 5
<211> 828
<212> DNA
<213> Homo sapiens
<220>
<221> CDS
<222> (1) ... (828)
<223> Coding sequence of low mw two-chain urokinase-plasminogen activator
<400> 5
aag ccc tcc tct cca gaa gaa tta aaa ttt cag tgt ggc caa aag
Lys Pro Ser Ser Pro Pro Glu Glu Leu Lys Phe Gln Cys Gly Gln Lys
                  5
                                     10
                                                          15
act ctg agg ccc cgc ttt aag att att ggg gga gaa ttc acc acc atc 96
Thr Leu Arg Pro Arg Phe Lys Ile Ile Gly Gly Glu Phe Thr Thr Ile
             20
                                 25
                                                      30
gag aac cag ccc tgg ttt gcg gcc atc tac agg agg cac cgg ggg ggc 144
Glu Asn Gln Pro Trp Phe Ala Ala Ile Tyr Arg Arg His Arg Gly Gly
         35
                             40
                                                  45
tct gtc acc tac gtg tgt gga ggc agc ctc atc agc cct tgc tgg gtg 192
Ser Val Thr Tyr Val Cys Gly Gly Ser Leu Ile Ser Pro Cys Trp Val
     50
                         55
                                              60
atc agc gcc aca cac tgc ttc att gat tac cca aag aag gag gac tac
Ile Ser Ala Thr His Cys Phe Ile Asp Tyr Pro Lys Lys Glu Asp Tyr
 65
                     70
                                          75
                                                              80
atc gtc tac ctg ggt cgc tca agg ctt aac tcc aac acg caa ggg gag
Ile Val Tyr Leu Gly Arg Ser Arg Leu Asn Ser Asn Thr Gln Gly Glu
                                                          95
                 85
                                      90
```

atg aag ttt gag gtg gaa aac ctc atc cta cac aag gac tac agc gct 336

Met	Lys	Phe	Glu 100	Val	Glu	Asn	Leu	Ile 105	Leu	His	Lys	Asp	Tyr 110	Ser	Ala	
gac	acg	ctt	gct	cac	cac	aac	gac	att	gcc	ttg	ctg	aag	atc	cgt	tcc	384
Asp	Thr	Leu	Ala	His	His	Asn	Asp	Ile	Ala	Leu	Leu	Lys	Ile	Arg	Ser	
		115					120					125				
aag	gag	ggc	agg	tgt	gcg	cag	cca	tcc	cgg	act	ata	cag	acc	atc	tgc	432
Lys	Glu	Gly	Arg	Cys	Ala	Gln	Pro	Ser	Arg	Thr	Ile	Gln	Thr	Ile	Cys	
	130					135					140					
ctg	CCC	tcg	atg	tat	aac	gat	CCC	cag	ttt	ggc	aca	agc	tgt	gag	atc	480
Leu	Pro	Ser	Met	Tyr	Asn	Asp	Pro	Gln	Phe	Gly	Thr	Ser	Cys	Glu	Ile	
145					150					155					160	
act	ggc	ttt	gga	aaa	gag	aat	tct	acc	gac	tat	ctc	tat	ccg	gag	cag	528
Thr	Gly	Phe	Gly	Lys	Glu	Asn	Ser	Thr	Asp	Tyr	Leu	Tyr	Pro	Glu	Gln	
				165					170					175		
ctg	aaa	atg	act	gtt	gtg	aag	ctg	att	tcc	cac	cgg	gag	tgt	cag	cag	576
Leu	Lys	Met	Thr	Val	Val	Lys	Leu	Ile	Ser	His	Arg	Glu	Cys	Gln	Gln	
			180					185					190			